

Academic and Government Research

Round 7

9/25/08

Item Designation	Title/Summary	Author	School/Area	Date
Animal Repellents	No Results			
Bath Products	P-menthane-1,2,4-triol: Isolation and identification of a bioactive compound	Lee, P.S.K.	University of Houston	1992
Bioremediation Materials	Microbial degradation of crude oil: factors affecting the dispersion in sea water by mixed and pure	Reisfeld, A., E. Rosenberg, and D. Gutnick	Tel Aviv University (Israel)	1972
	Microbial degradation of petroleum hydrocarbons	Atlas, R.M.	University of Louisville	1981
	Microbial degradation of hydrocarbons in the environment	Leahy, L.G. and R.R. Colwell	University of Maryland	1990
	Microbial populations and hydrocarbon biodegradation potentials in fertilized shoreline	Lindstrom, J.E., R.C. Prince, J.C. Clark, M.J. Grossman,	University of Alaska	1991
	Biodegradation of polycyclic aromatic hydrocarbon compounds in soil-water suspensions with surfactants	Laha, S.	Carnegie Mellon University	1992
	Microbial degradation of polycyclic aromatic hydrocarbon and cyanide in soils	Ho, Y.	Rensselaer Polytechnic Institute	1993
	Biodegradation and toxicity of aromatic and halogenated aliphatic hydrocarbons	Da Silva Nunes, V.	New Mexico State University	1996
	Organic acids as a bioremediation monitoring tool	Seagren, E.A., and J.G. Becker	University of Maryland	1999
	Motility-enhanced bioremediation of carbon tetrachloride-contaminated aquifer sediments	Witt, M.E., M.J. Dybas, R.M. Warden and C.S. Criddle	Michigan State University	1999
	The transport processes in soil bioremediation	Karimi Lotfabad, S.	University of Alberta (Canada)	2000
	Hydrocarbon bioremediation using bioactive foam	Ripley, M.B.	University of York (United Kingdom)	2000
	Bioremediation of perchlorate-contaminated groundwater using a packed bed biological reactor	Losi, M.E., T. Giblin, V. Hosangadi, and W.T. Frankenberger	University of California	2002
	Development of microorganism-enhanced in situ remediation systems	Guo, Q.	University of Regina (Canada)	2003
	Bioremediation of hydrocarbon-contaminated soils at Canadian Forces Station Alert (Nunavut)	Mauchan, J.D.	Royal Military College of Canada	2003

Understanding bioremediation of contaminated groundwater. Application of a lux bioreporter to monitor in situ bacterial catabolism of naphthalene in saturated porous media	Dorn, J.G.	University of Arizona	2004
Assessment of rhizosphere bacterial community diversity in aromatic hydrocarbon contaminated soil	Ho, C.-H.	Purdue University	2005
Bioremediation and bioavailability of PAHs fir PAH-contaminated soils	Lee, P.H., S.K. Ong, J. Golchinm, and G.L. Nelson	Iowa State University	
Aerobic Cometabolism of Chlorinated Aliphatic Hydrocarbon Compounds with Butane-Grown Microorganisms	Arp, D., P. Bottomley, L. Ciuffetti, M. Dolan, S. Giovannoni, L. Semprini, and K. Williamson	Oregon State University	
Laboratory treatability tests for aerobic bioremediation of petroleum hydrocarbons in soil and sediment	Zhang, X.	University of Massachusetts	
Enhanced Bioremediation for Treatment of Chlorinated Solvent Residual Source Areas	Sorenson, K.S. and R.L. Ely	Oregon State University	2001
Bioremediation of Chlorinated and Polycyclic Aromatic Hydrocarbon Compounds	Hinchee, R.E., A. Leeson, L. Semprini, and S.K. Ong	Oregon State University	1994
Bioremediation of Chlorinated Solvents	Hinchee, R.E., A. Leeson, and L. Semprini	Oregon State University	1995
In situ Aeration and Aerobic Remediation	Leeson, A., P.C. Johnson, R.E. Hinchee, L. Semprini,	Oregon State University	2001
A Laboratory and Field Evaluation of In-Situ Bioremediation of Trichloroethylene, cis-and-trans-Dichloroethylene, and Vinyl Chloride by Methanotrophic Bacteria	Semprini, L., G.D. Hopkins, D. Grbic-Galic, P.L. McCarty, and P.V. Roberts	Oregon State University	1993
Ground-Water Treatment of Chlorinated Solvent in Groundwater Clean-Up Through Bioremediation	McCarty, P.L. and L. Semprini	Oregon State University	1993
In-situ Transformation of Halogenated Aliphatic Compounds under Anaerobic Conditions	Semprini, L.	Oregon State University	1997
Modeling of Cometabolism for the In-situ Biodegradation and Trichloroethylene and Other Chlorinated Aliphatic Hydrocarbons	Semprini, L., R.L. Ely, and M.M. Lang	Oregon State University	1998
A Field Evaluation of In-Situ Biodegradation of Chlorinated Ethenes: Part I, Methodology and Field Site Characterization	Roberts, P.V., G.D. Hopkins, D.M Mackay, and L. Semprini	Oregon State University	1990

	A Field Evaluation of In-Situ Biodegradation of Chlorinated Ethenes: Part 2, Results of Biostimulation and Biotransformation Experiments	Semprini, L., P.V. Roberts, G.D. Hopkins, and P.L. McCarty	Oregon State University	1990
	A Field Evaluation of In-situ Biodegradation of Chlorinated Ethenes: Part 3, Studies of Competitive Inhibition	Semprini, L., G.D. Hopkins, P.V. Roberts, D. Grbic-Galic, and P.L. McCarty	Oregon State University	1991
	Comparison of Model Simulations and Field Results for In-Situ Bioremediation of Chlorinated Aliphatics	Semprini, L. and P.L. McCarty	Oregon State University	1991
	In-situ Biotransformation of Carbon Tetrachloride and Other Halogenated Compounds Resulting from	Semprini, L., G.D. Hopkins, P.L. McCarty, and P.V.	Oregon State University	1992
	Pilot Scale Field Studies of In Situ Bioremediation of Chlorinated Solvents	Semprini, L., G.D. Hopkins, P.V. Roberts, and P.L.	Oregon State University	1992
	Microcosm and In-situ Field Studies of Enhanced Biotransformation of Trichloroethylene by Phenol-Utilizing Microorganisms	Hopkins, D.G., L. Semprini, and P.L. McCarty	Oregon State University	1993
	Trichloroethylene Concentration Effects on Pilot Field-Scale In-situ Groundwater Bioremediation by Phenol-Oxidizing Micro-organisms	Hopkins, G.D., J. Munakata, L. Semprini, and P.L. McCarty	Oregon State University	1993
	Bioremediation of metals in the subsurface using dissimilatory metal reducing bacteria		Oregon State University	
	Bioremediation of metals in the subsurface using dissimilatory metal reducing bacteria	Peacock, A.D., Y-J. Chang, J.D. Istok, L. Krumholz, R. Geyer, and D.C. White	Oregon State University	2003
	Effects of Rate-Limited Desorption on the Feasibility of In Situ Bioremediation	Fry, V.A. and J.D. Istok	Oregon State University	1994
Compost Activators and Accelerators	No Results			
Concrete and Asphalt Cleaners	Soy Oil for Solvents, Biodiesel Fuel and Soy Biodiesel from Biomass Conversion	Center for Crops Utilization Research	Iowa State University	
	Reactive Distillation for the Biorefinery: Production of Organic Acid Esters	Asthana, N., A. Kolah, D.T. Vu, C.T. Lira, and D.J. Miller	Michigan State University	2005
	Factors Influencing the Kinetics of Lactic Acid Esterification: Ethyl Lactate by Reactive Distillation	Asthana, N., A. Kolah, D.T. Vu, C.T. Lira, and D.J. Miller	Michigan State University	2005

	Clean Solvents - Alternative Media for Chemical reactions and Processing	Abraham, M. A., and L. Moens	ACS Symposium Series 819	2001
	Life cycle assessment of a biobased process for producing 1, 3-propanediol	Ogletree, A.L.	Iowa State University	2004
Cuts, Burns, and Abrasions Ointments	No Results			
Dishwashing Products	Reactive Distillation for the Biorefinery: Production of Organic Acid Esters	Asthana, N., A. Kolah, D.T. Vu, C.T. Lira, and D.J. Miller	Michigan State University	2005
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	Clean Solvents - Alternative Media for Chemical reactions and Processing	Abraham, M. A., and L. Moens	ACS Symposium Series 819	2001
	Life cycle assessment of a biobased process for producing 1, 3-propanediol	Ogletree, A.L.	Iowa State University	2004
Erosion Control Materials	Absorbency Characteristics of Kenaf Core Particles	Zaveri, Mitul Dilip,	North Carolina State University	2004
	Erosion Control Research	National Soil Erosion Research Laboratory (NSERL)	USDA ARS	
	Naturally Colored Cotton for Geocomposites	Chen, Y., Sun, L., Cui, Xiaoliang, Calamari Jr, Timothy, Kimmel, Linda, Parikh, Dharnid	Louisiana State University - Baton Rouge	2003
	Production and Distribution of Cereal Straw on the Canadian Prairies	Sokhansanj, S., Mani, S., Stumborg, M., Samson, R., Fenton, J.	University of British Columbia - Vancouver	2006
	Estimating the Impact of Biomass Harvest on Soil Erosion Using the WEPP Model	Hasche, Amber, Richard, Tom, Laflen, John	Iowa State University	2003
	Using Environmentally Friendly Geotextiles for Soil Reinforcement: A Parametric Study	Mwasha, Abrahams	University of West Indies	2008
Floor Cleaners and Protectors	Bio Based Alternative Solvents: How Well Do They Work	Marshall, J. and H. Wilcox	University of Massachusetts	2003
		Toxic Use Reduction Institute	University of Massachusetts	

	Ethanol and biomass fermentation products as feedstocks for producing monomers for biodegradable polymers, industrial solvents, and other industrial chemicals	Energy & Environmental Research Center	University of North Dakota	
	Development of a Mild Solvent Extraction System for the Production of Value-Added Chemical and Materials from Biomass	Crofcheck, C., M.D. Montross, A.J. Berkovich, and R. Andrews	University of Kentucky	
	Reactive Distillation for the Biorefinery: Production of Organic Acid Esters	Asthana, N., A. Kolah, D.T. Vu, C.T. Lira, and D.J. Miller	Michigan State University	2005
	Factors Influencing the Kinetics of Lactic Acid Esterification: Ethyl Lactate by Reactive Distillation	Asthana, N., A. Kolah, D.T. Vu, C.T. Lira, and D.J. Miller	Michigan State University	2005
	Opportunities for Value-added Utilization of Oilseeds and Oilseed Products in Minnesota	Carlson, R.W.	University of Minnesota	2005
Hair Care Products	High-Tech Castor Plants May Open Door to Domestic Production	Chen, G.Q. and T.A. McKeon	Western Regional Research Center	2001
	The Use of Lesquerella Oil in Products		USDA ARS	
Interior Paints and Coatings	Vegetable Fats and Oils in Paints and Coatings	Center for Crops Utilization Research	Iowa State University	
	Improvement of soy oil for fast-drying use as in paints and coatings	Center for Crops Utilization Research	Iowa State University	
	Novel Synthesis of Carboxy-Functional Soybean Acrylic-Alkyd Resins for Water-Reducible Coatings	Wang, C., G. Lin, J.-H. Pae, F.N. Jones, H. Ye, and W. Shen	Eastern Michigan University	2000
	Use of vegetable oil and derivatives as reactive diluents in high-solid and waterborne coatings	Coating Research Institute	Eastern Michigan University	
	Ultra low-VOC coatings from vegetable oils	Coating Research Institute	Eastern Michigan University	
	Patent: Chitin-based coatings	Glasser, W.G. and R.K. Jain	Virginia Polytechnic Institute and State University	

	Towards more stable natural resin varnishes for paintings: The aging of triterpenoid resins and varnishes	Dietemann, P.	Eidgenoessische Technische Hochschule Zuerich (Switzerland)	2003
		Kaempfe, D.	Biomass Research & Development Initiative	
		Bailey, C.A.	Cooperative State Research, Education & Extension Service	
	Development of industrial uses for animal fats and vegetable oils, including biodiesel and lubricants	Industrial Agricultural Products Center	University of Nebraska	
	Molecular and Process Scale Discovery, Innovation, and Economics for Replacement of Fossil Fuel Derived Products	Ladisch, M.	Purdue University	
	Development of a new industrial uses for proteins found in soybeans and wheat: Films, coatings and adhesives can be made from the proteins in these commodities	Industrial Agricultural Products Center	University of Nebraska	
	Solvency of Soy	Patun, R.	Industrial Paint and Powder (Vol 77)	2001
Oven and Grill Cleaners	Bio Based Alternative Cleaning Solvents	Toxic Use Reduction Institute	University of Massachusetts	
Slide Way Lubricants	Crambe in lubricants	Center for Crops Utilization Research	Iowa State University	
	Formulation and evaluation of emulsifier systems for petroleum- and bio-based semi-synthetic metalworking fluids	Zimmerman, J.B.	University of Michigan	2003
	Development of industrial uses for animal fats and vegetable oils, including biodiesel and lubricants	Industrial Agricultural Products Center	University of Nebraska	
	Thermally Stable Vegetable Oil based Lubricants via Reductive Ozonolysis	Vickray, R.	Michigan State University	2004
	The Use of Soybean Oil in Biobased Products	Erhan, S.	USDA ARS	2006

	Chemical Systems for Soybean Oil Conversion to Industrial Products		USDA ARS	
	Synthesis and Characterization of Biobased Lubricant Additives	Sharma, B., J. Perez, and S. Erhan	USDA ARS	2006
	Friction and Wear Behavior of Biobased Lubricant Additives	Sharma, B., J. Perez, and S. Erhan	USDA ARS	2006
	Friction Behavior of Some Seed Oils: Bio-Based Lubricant Applications	Adhvarya, A., G. Biresaw, B. Sharma, and S. Erhan	USDA ARS	2006
	Vegetable Oil Based Biodegradable Lubricants for Industrial Applications	Erhan, S. and B. Sharma	USDA ARS	2006
	Use of Vegetable Oils in Functional Fluids	Erhan, S., A. Adhvaryu, and Z. Liu	USDA ARS	2002
	Soybean Oil-Based Base Stocks	Erhan, S.	USDA ARS	2001
	Chemical Systems for Soybean Oil Conversion to Industrial Products		USDA ARS	
	Industrial Products from New Crops		USDA ARS	
	New and Expanded Uses of Oilseed Products and By-Products	Wan, P., M. Dowd, I. Lima, M. Kuk, and O. Dailey	USDA ARS	
	New Lubricants from vegetable oil: cyclic acetals of methyl 9,10-dihydroxystearate	Filley, J.	Colorado School of Mines	2004
	Development of biobased synthetic fluid: application of molecular modeling to structure-physical property relationship	Adhvaryu, A., B.K. Sharma, H.S. Hwang, S.Z. Erhan, and J. Perez	American Chemical Society	2005
Thermal Shipping Containers	Patent pending on a process for producing a water-resistant starch polymer for potential use in loose-fill packaging and thermo-formed product applications	Industrial Agricultural Products Center	University of Nebraska	